

$$\beta = (2\pi/\lambda) \times \text{Modal Index}$$

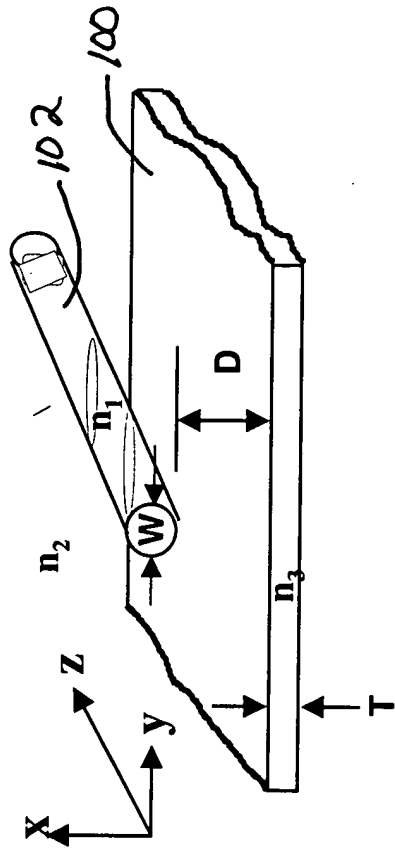
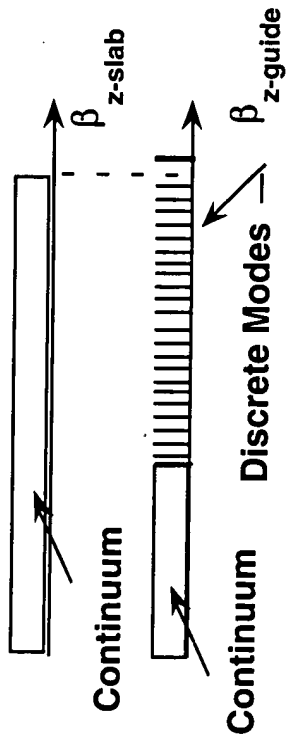


Fig. 1

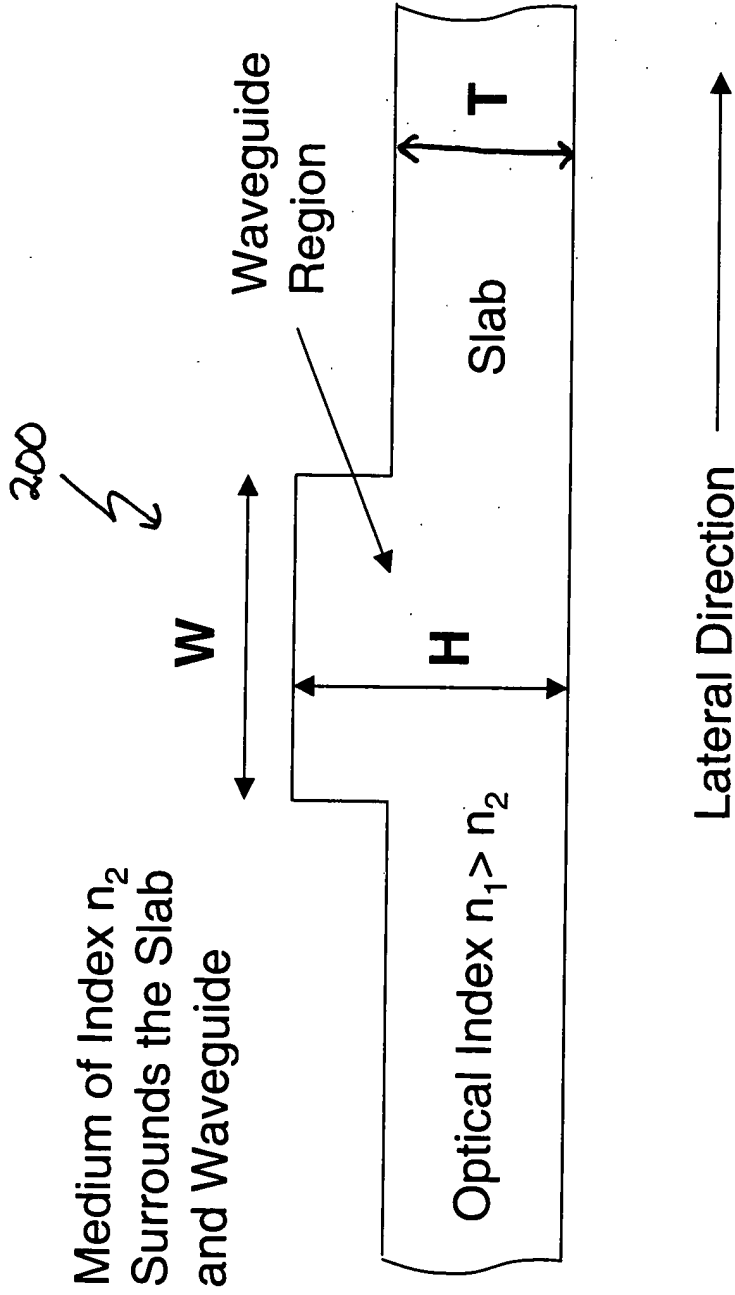


Fig. 2

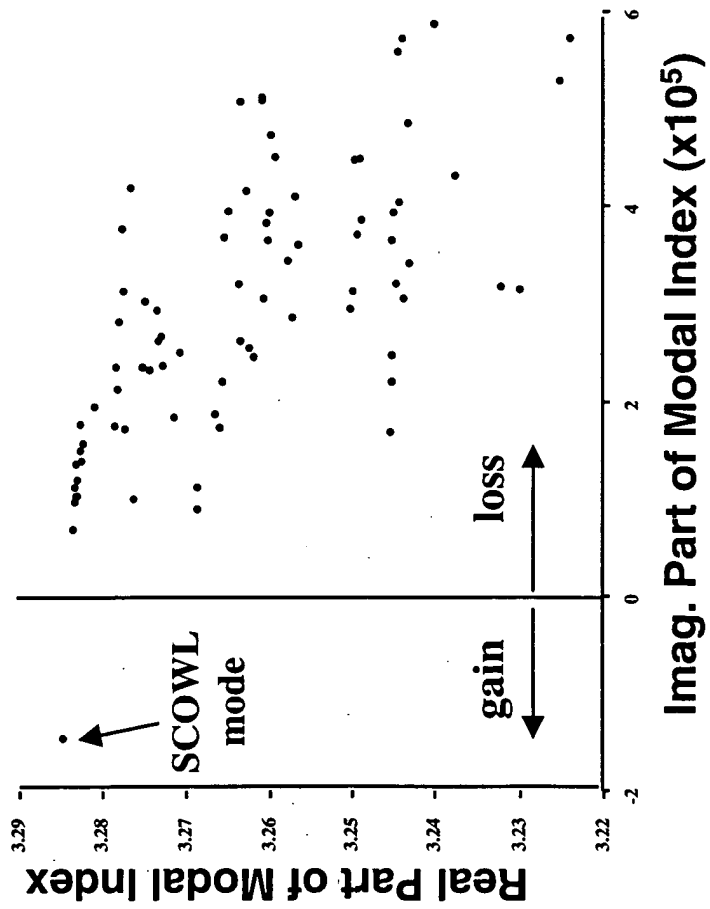
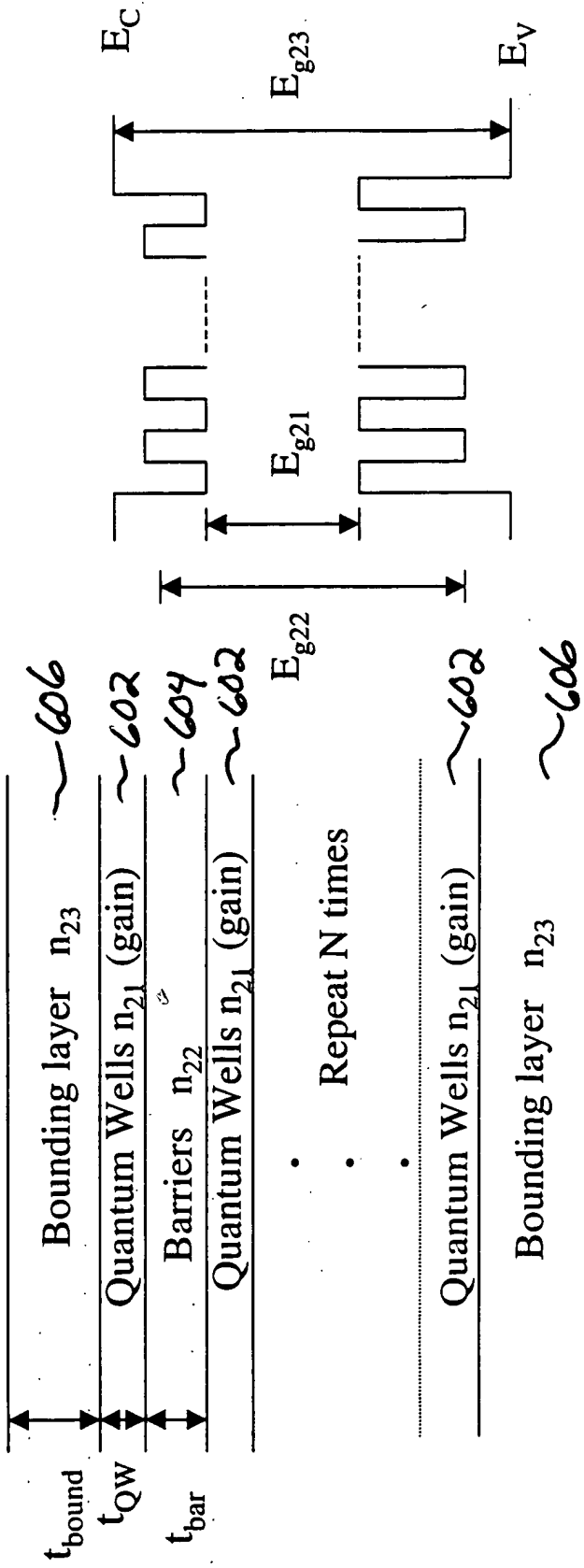


Fig. 5

600
 ↘
 ↙



MQW Region Band Diagram

$$n_{21} > n_{22} \geq n_{23} \geq n_1 > n_2$$

$$E_{g21} < E_{g22} \leq E_{g23} \leq E_{g1}$$

Fig. 6

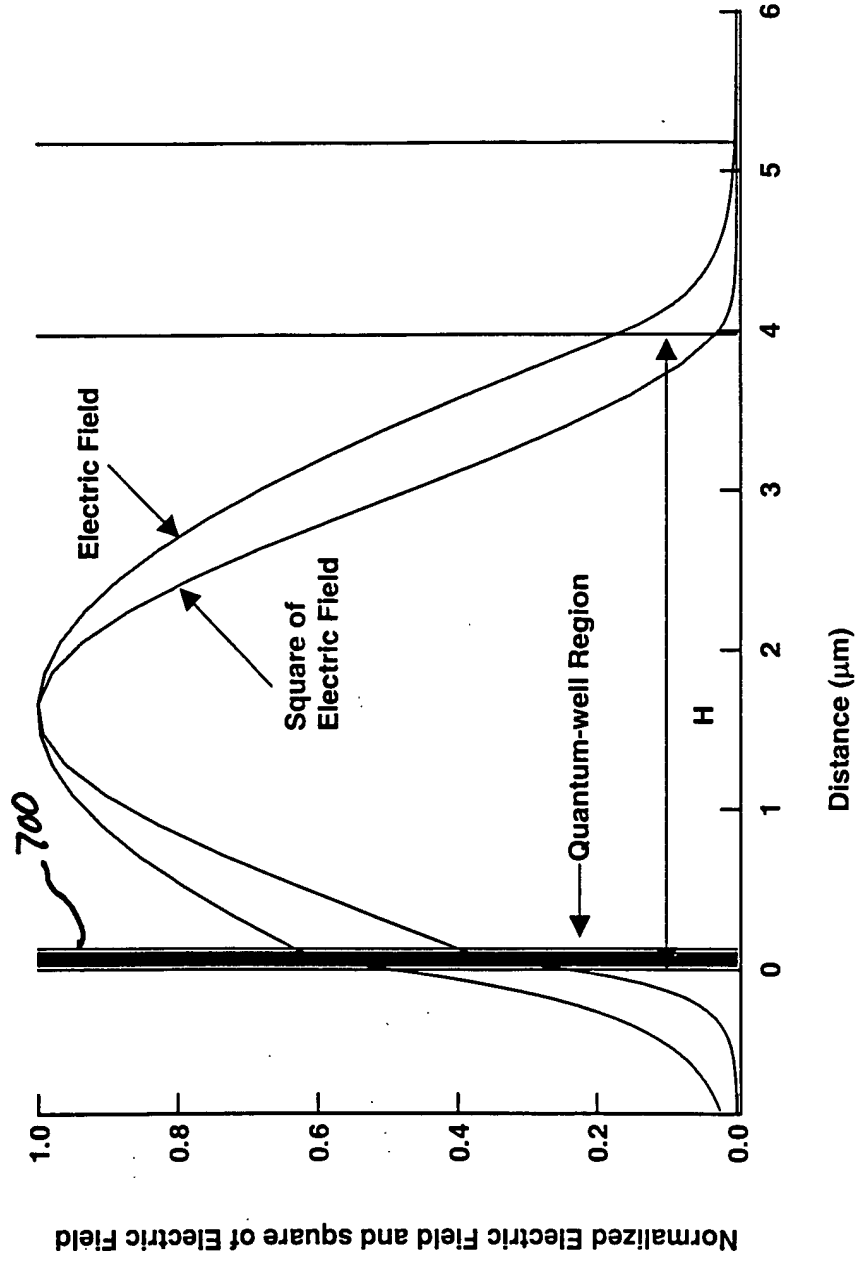


Fig. 7

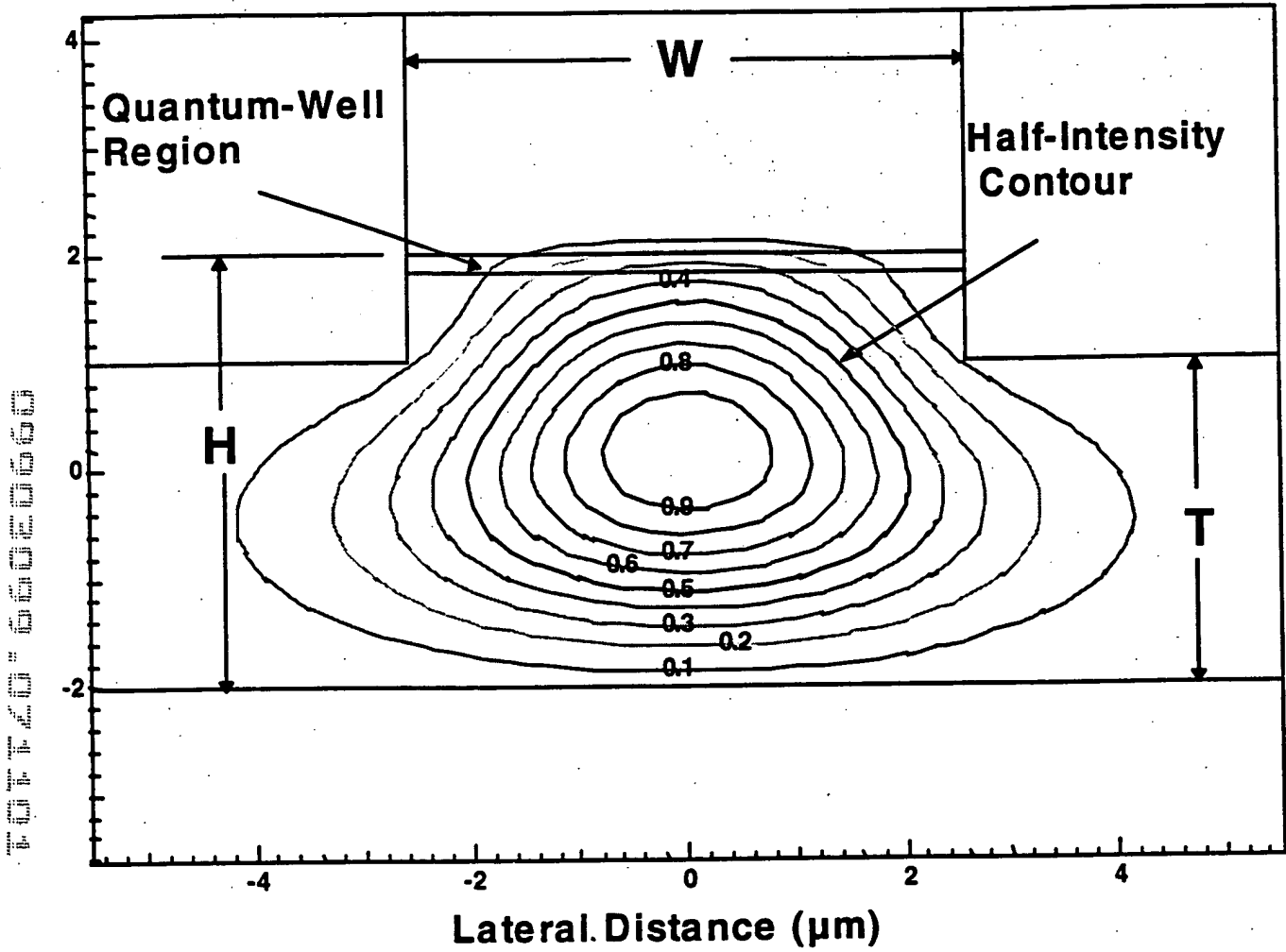


Fig. 8

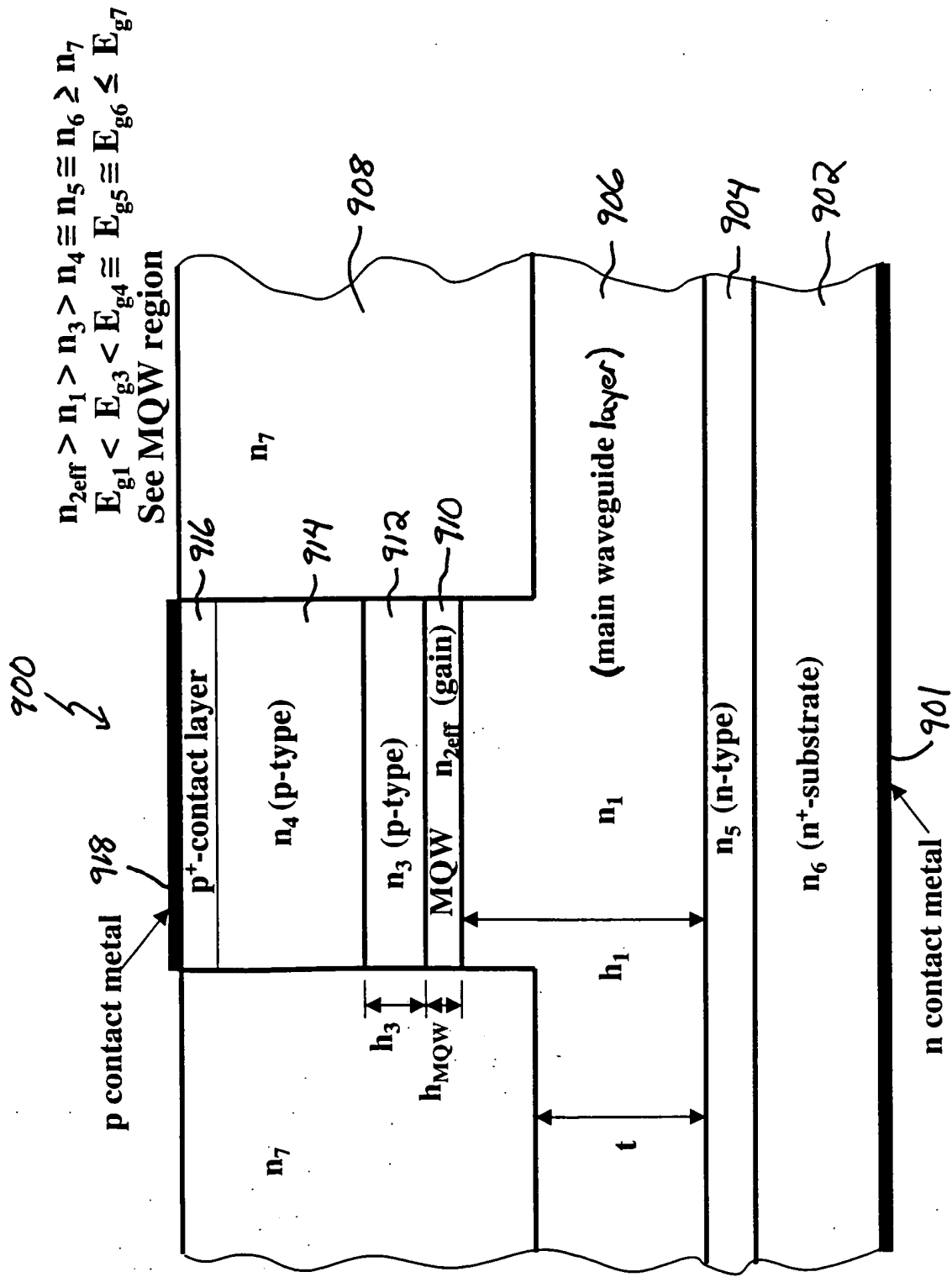


Fig. 9

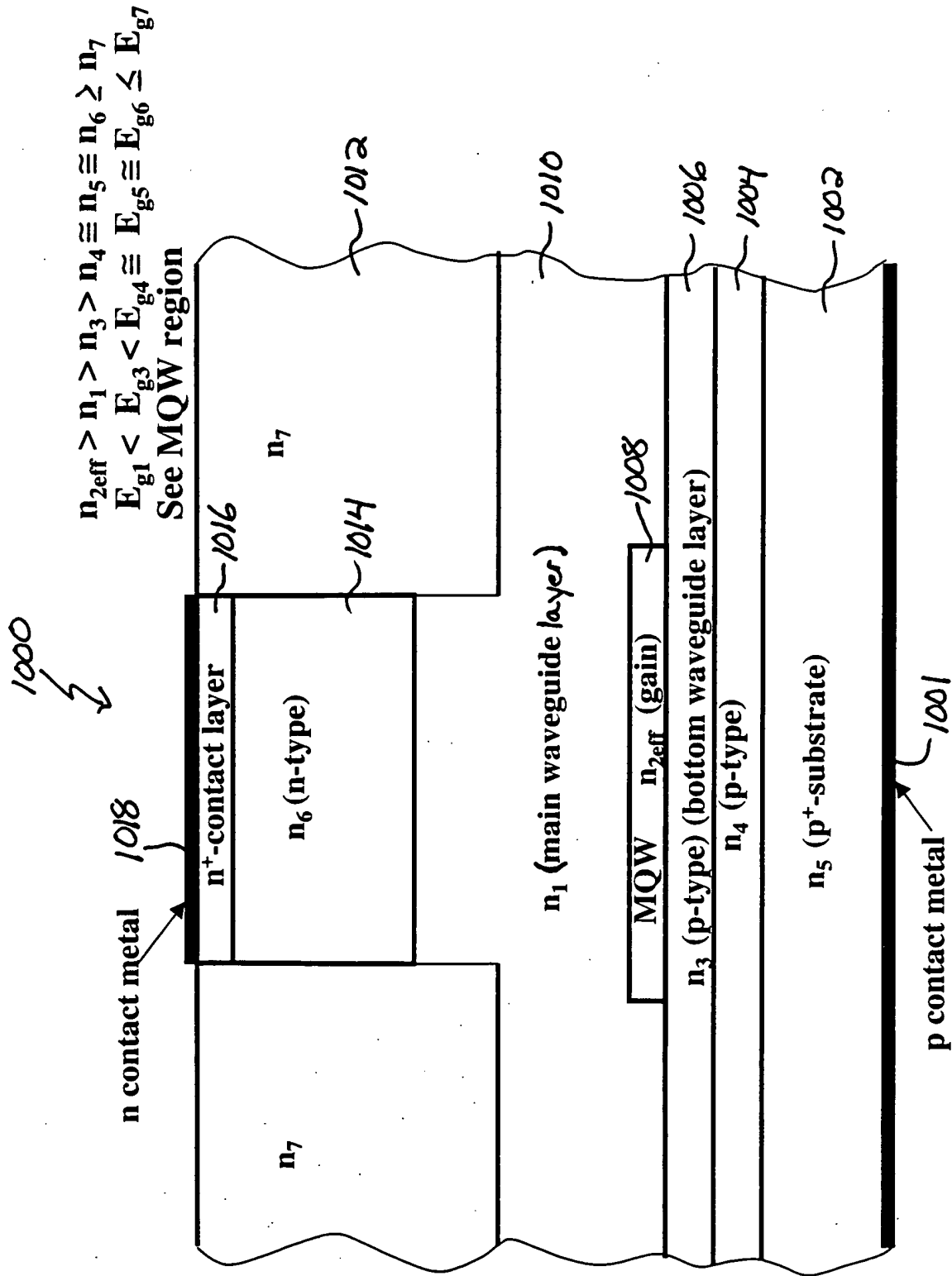


Fig. 10

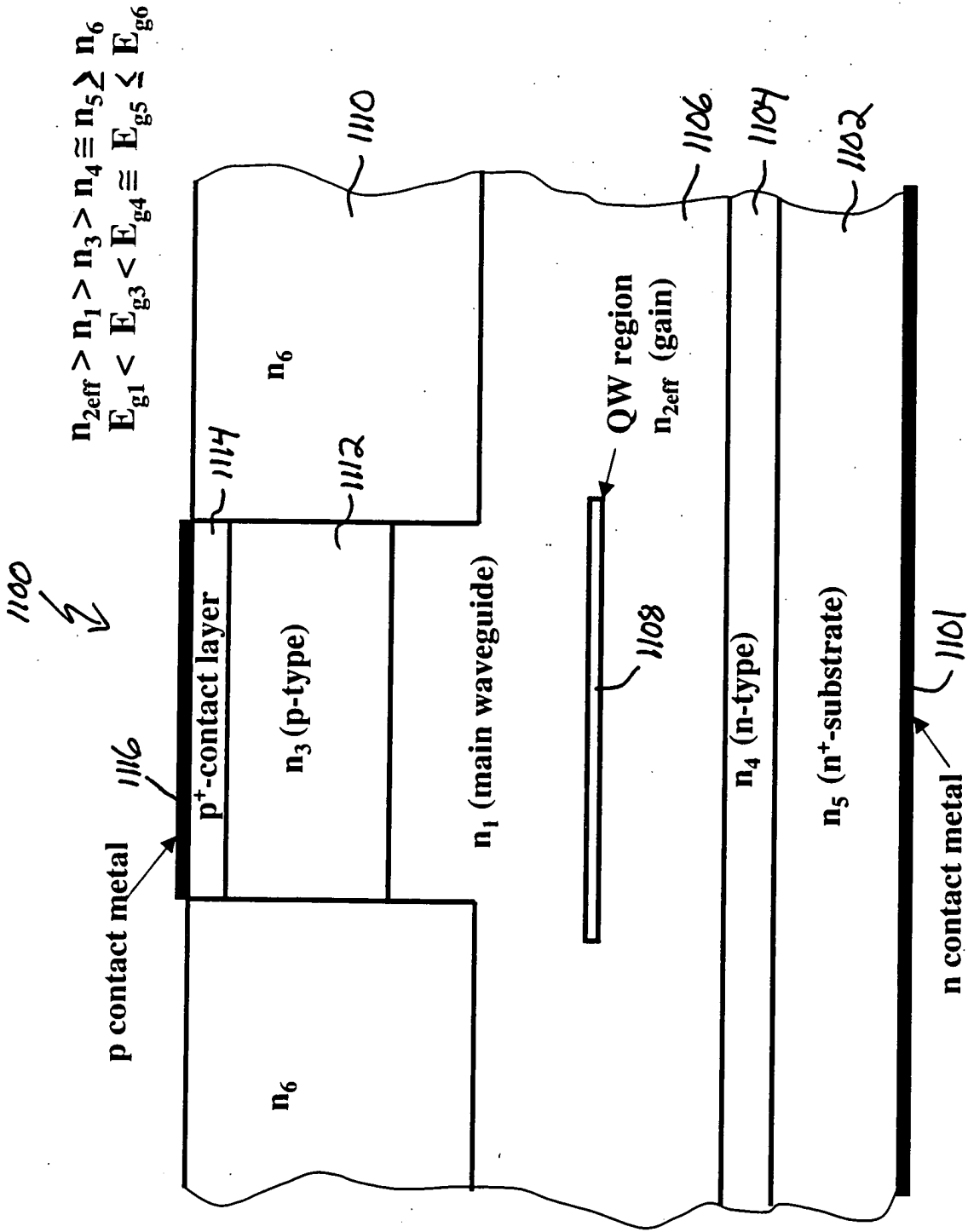
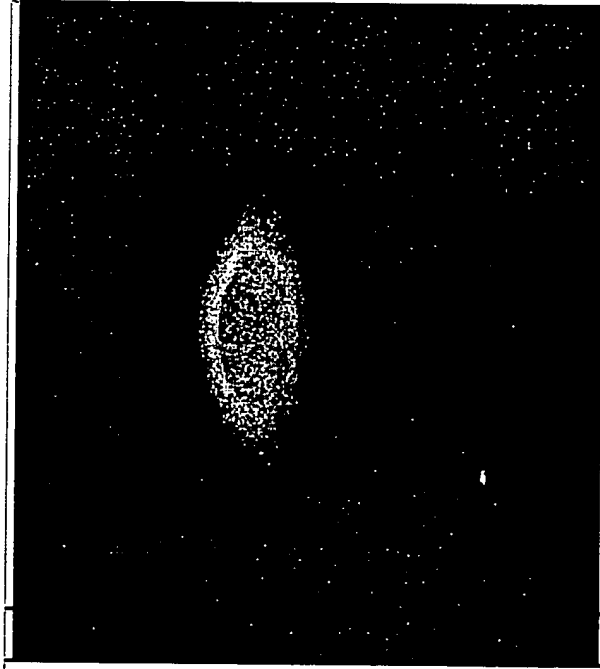


Fig. 11

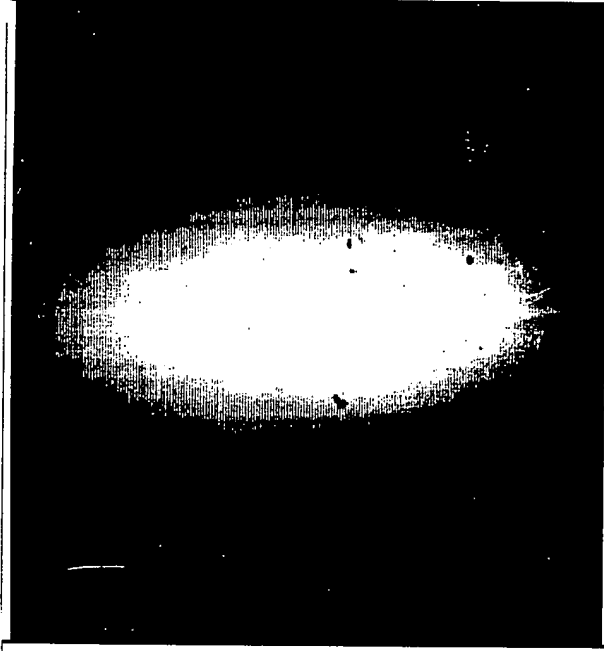
**Near-Field
Mirror Illumination Pattern**



4 μm

Fig. 12A

Far-Field Pattern



~8°

Fig. 12B

Near-Field Pattern

Far-Field Pattern

Half-Intensity Contours

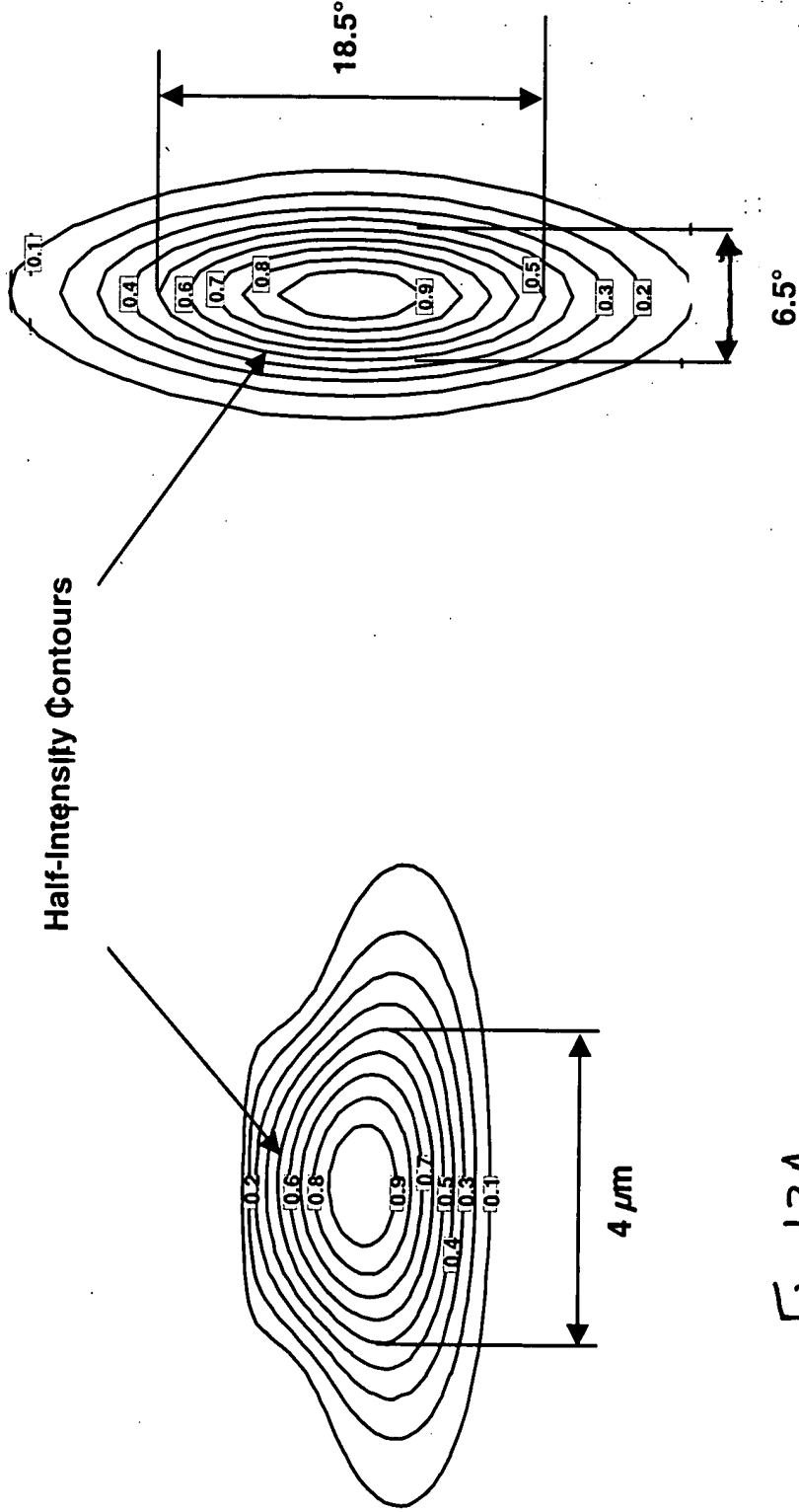


Fig. 13A

Fig. 13B

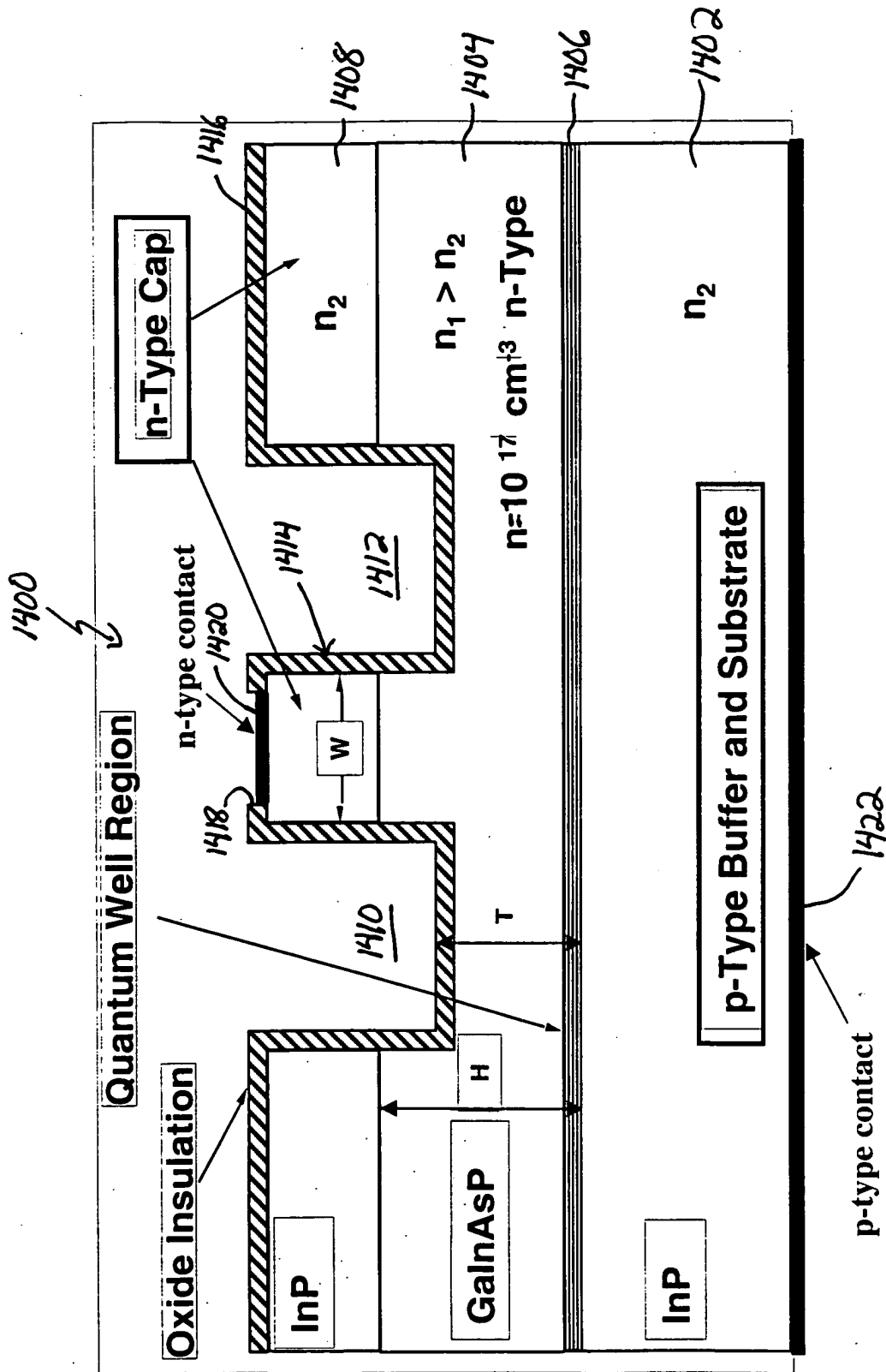


Fig. 14

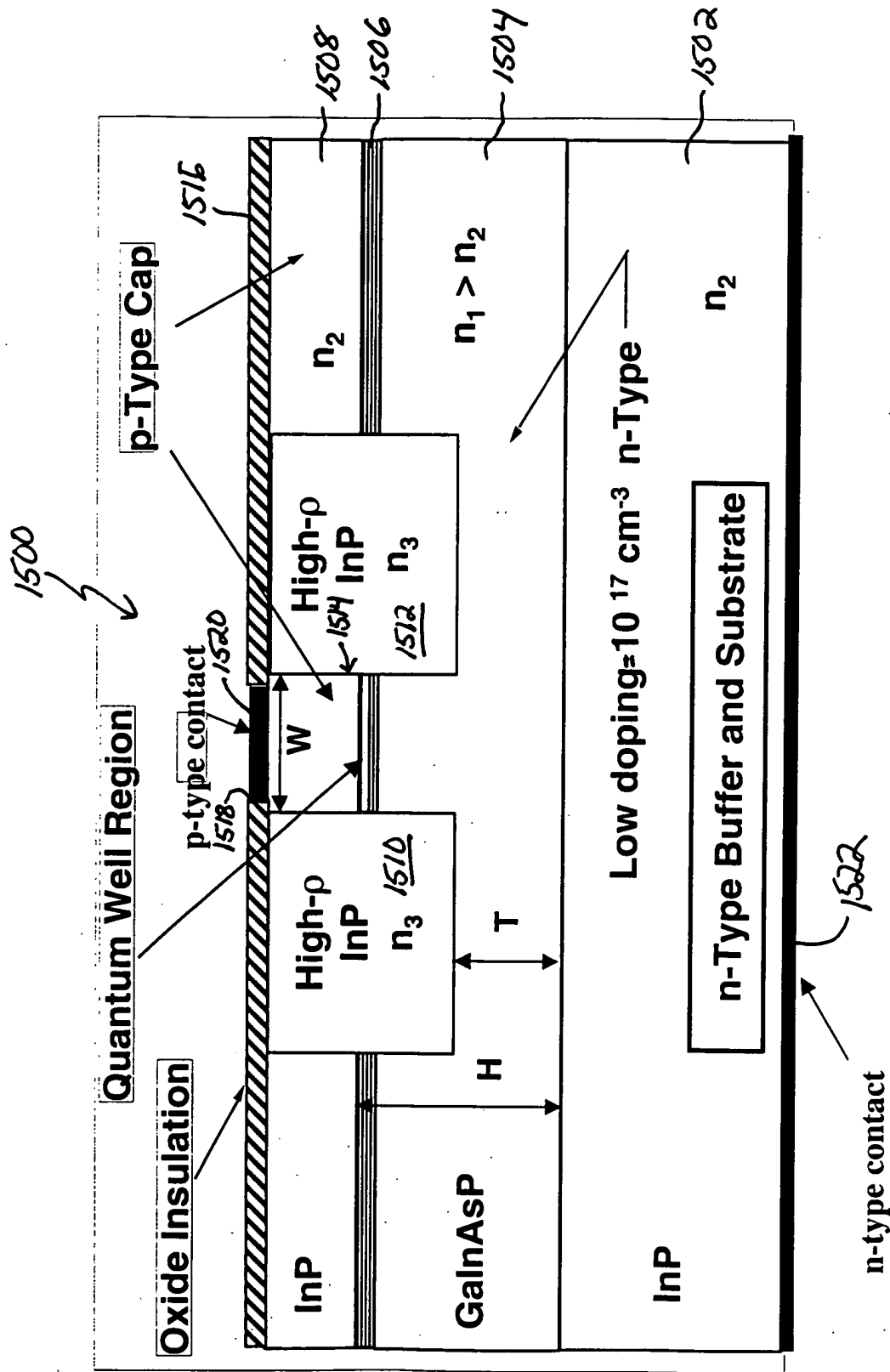


Fig. 15

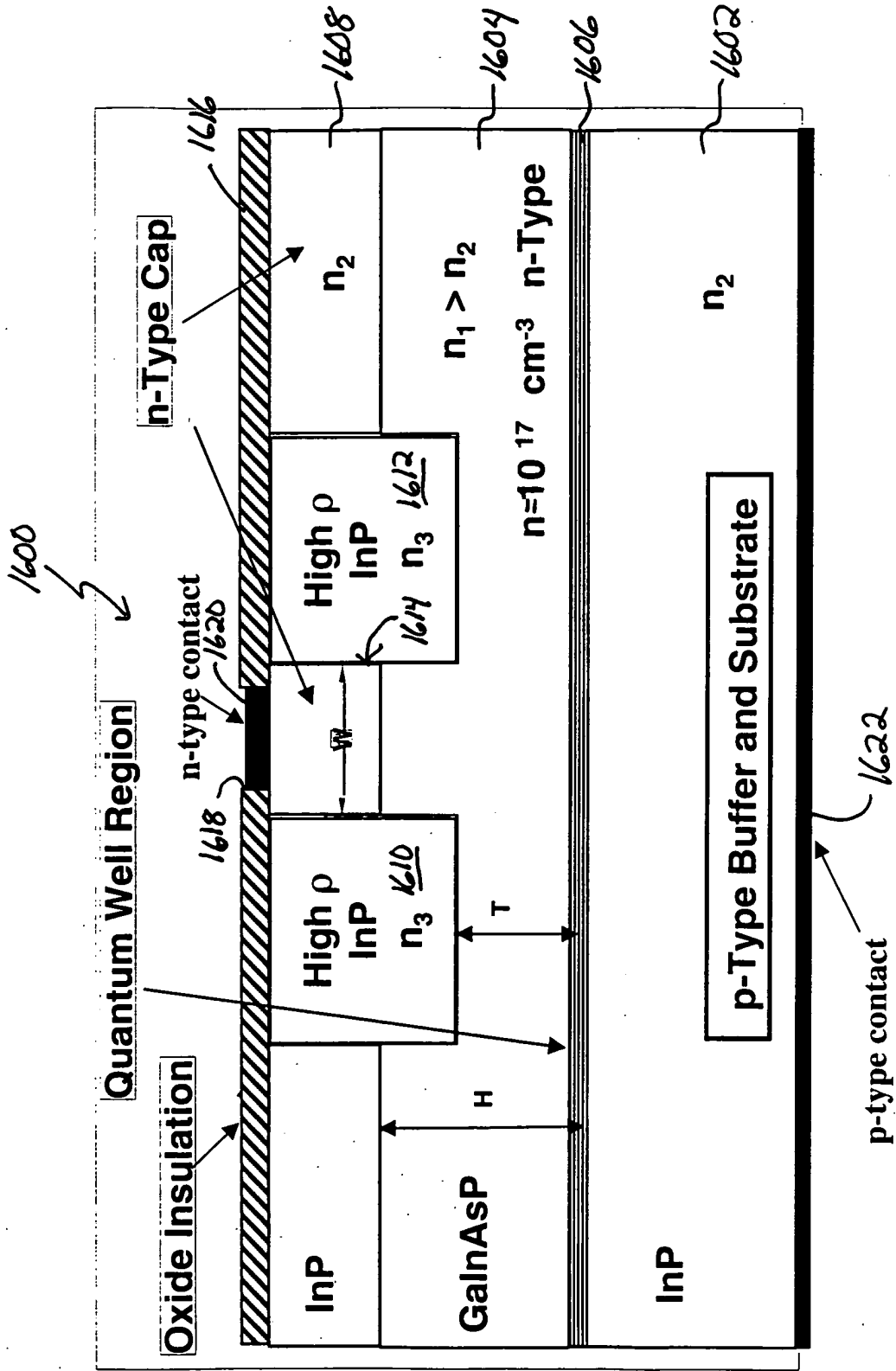


Fig. 16

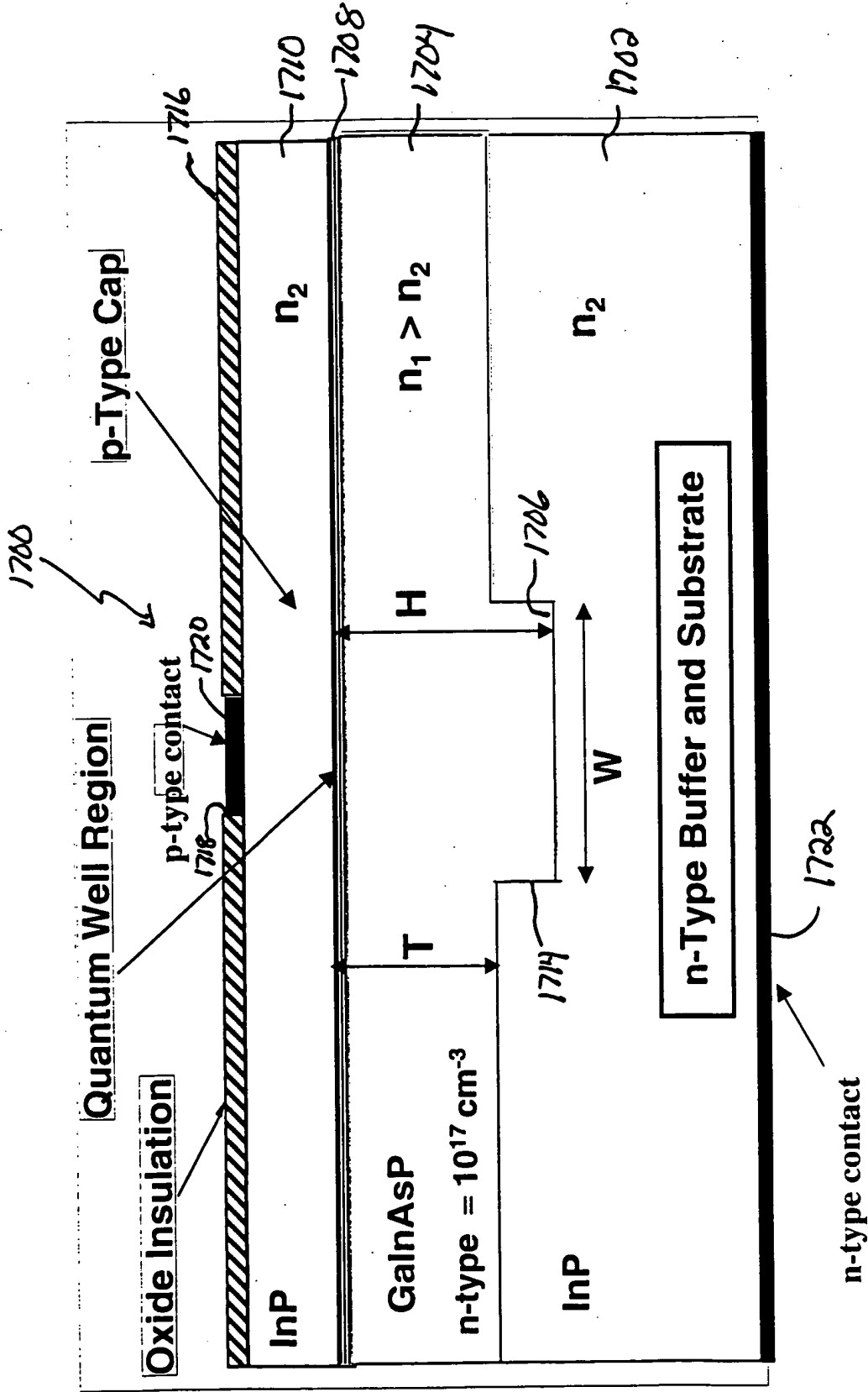


Fig. 17

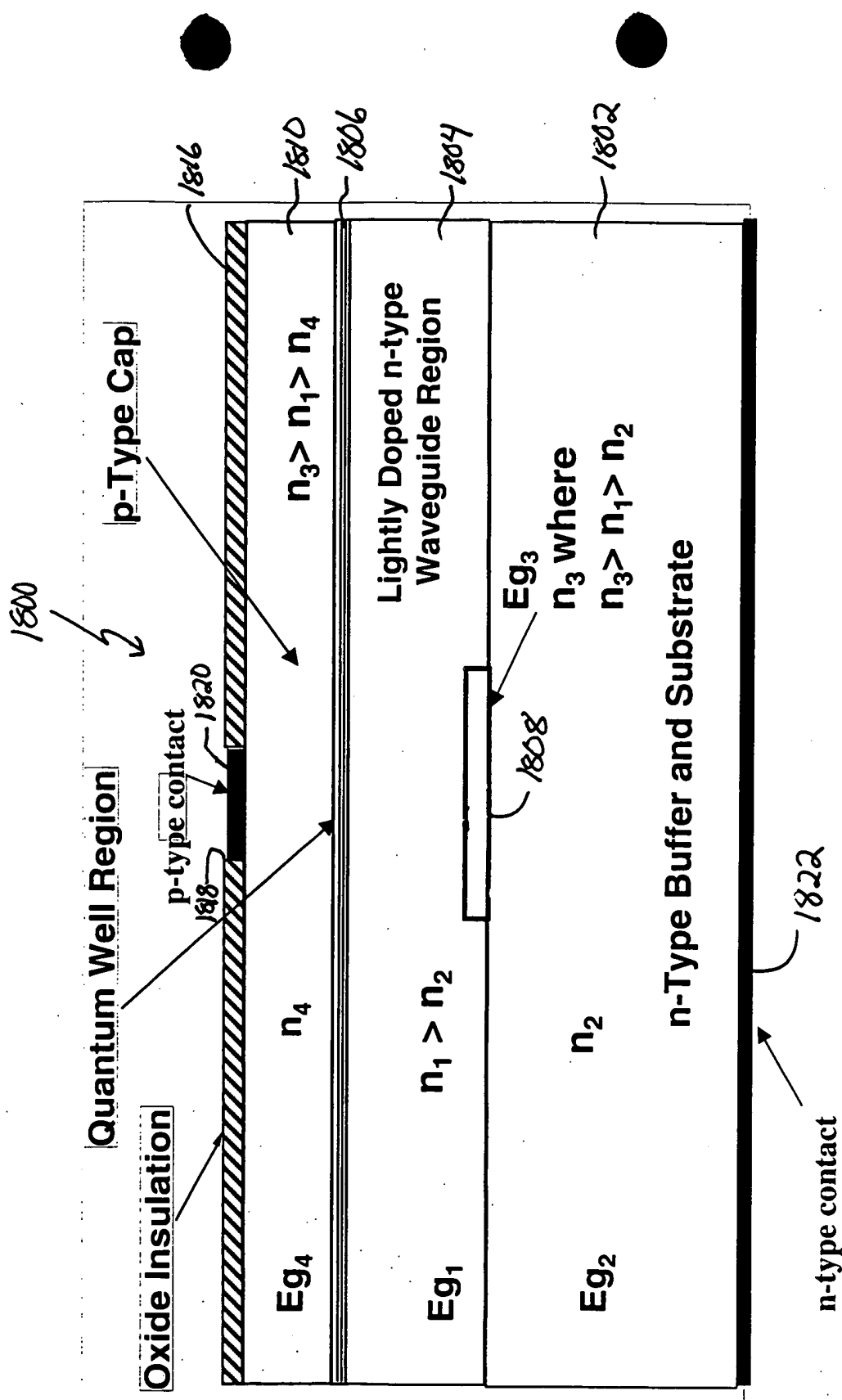


Fig. 18

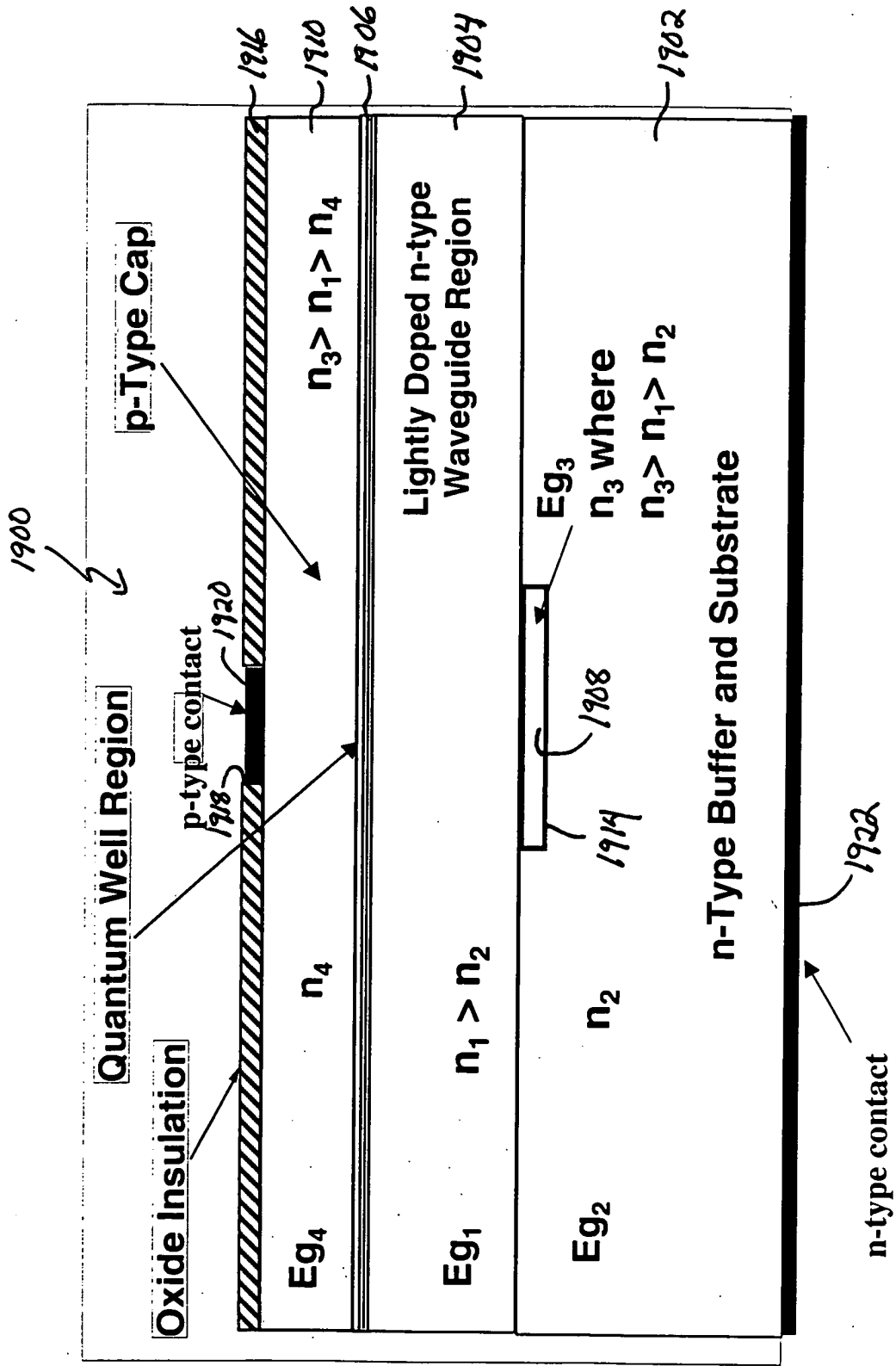


Fig. 19

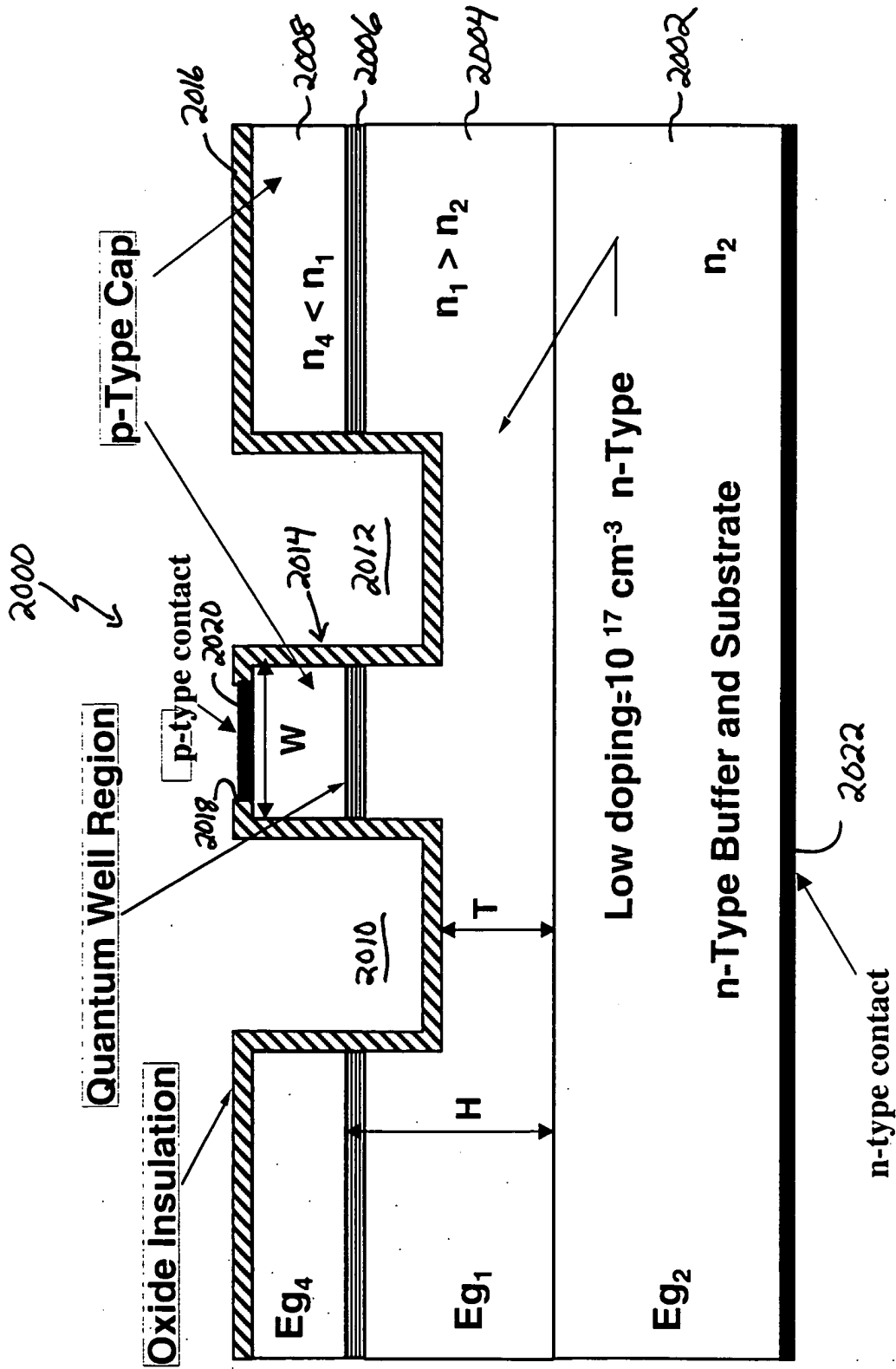


Fig. 20

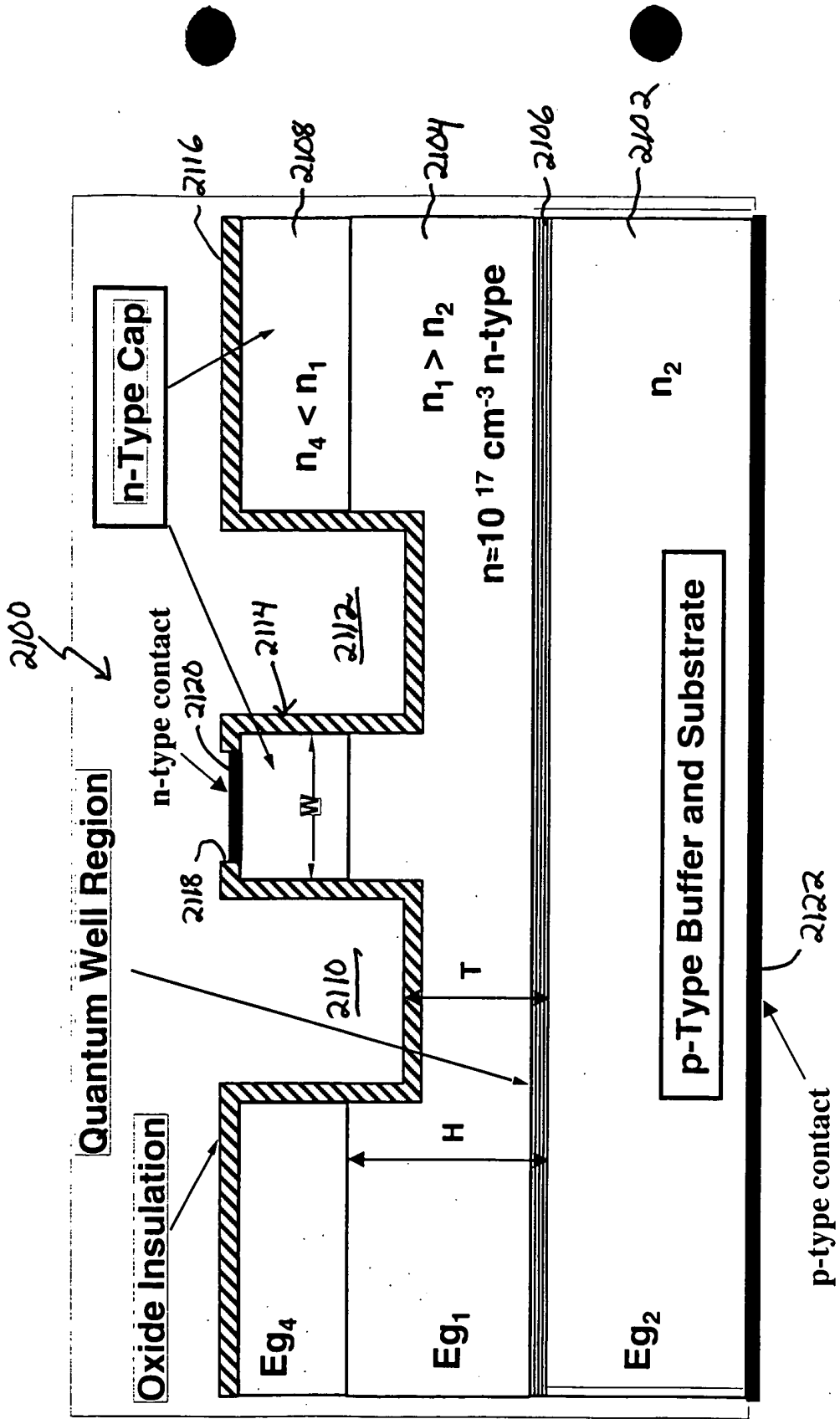


Fig. 21

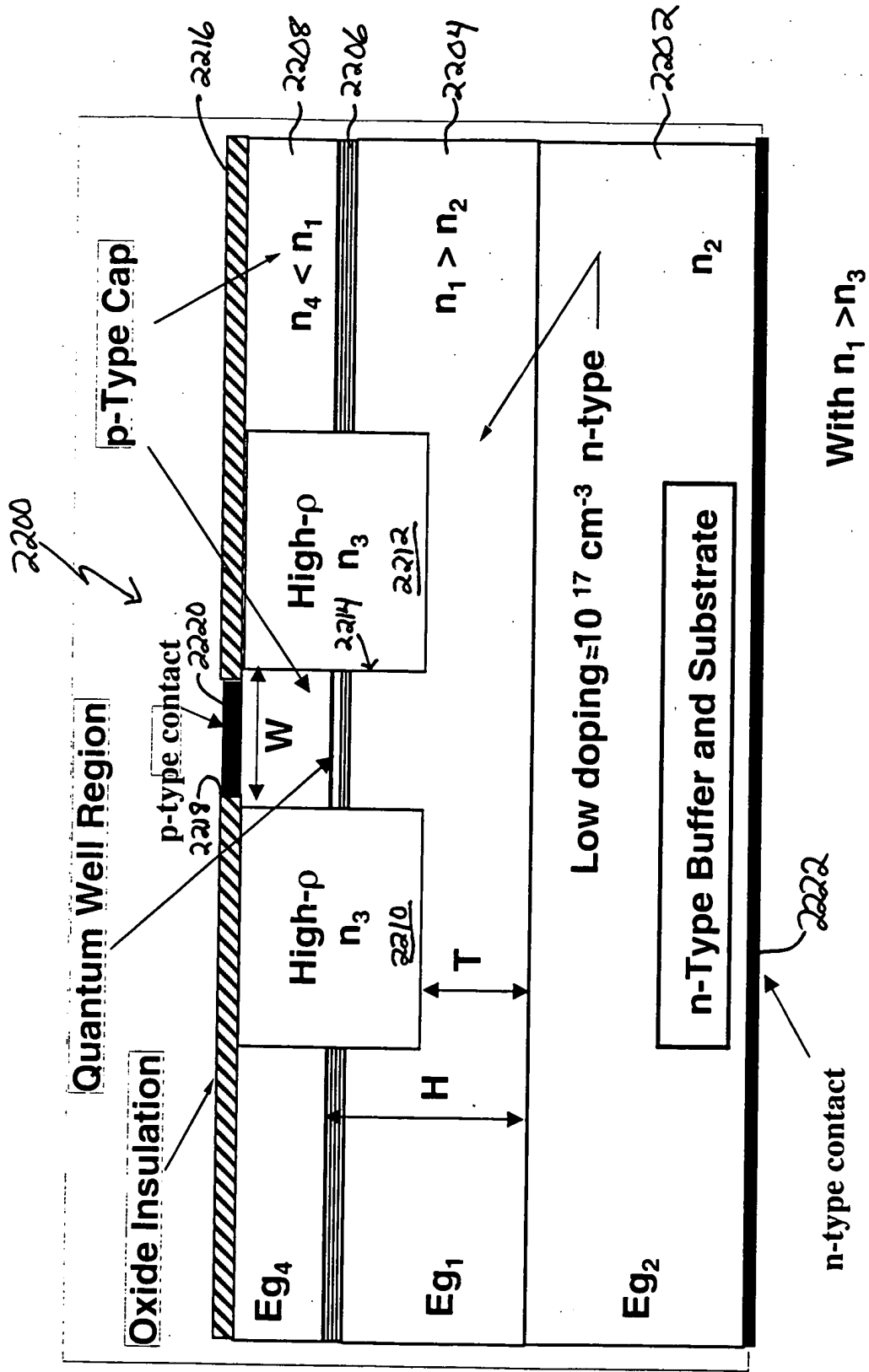


Fig. 22

TOP SECRET

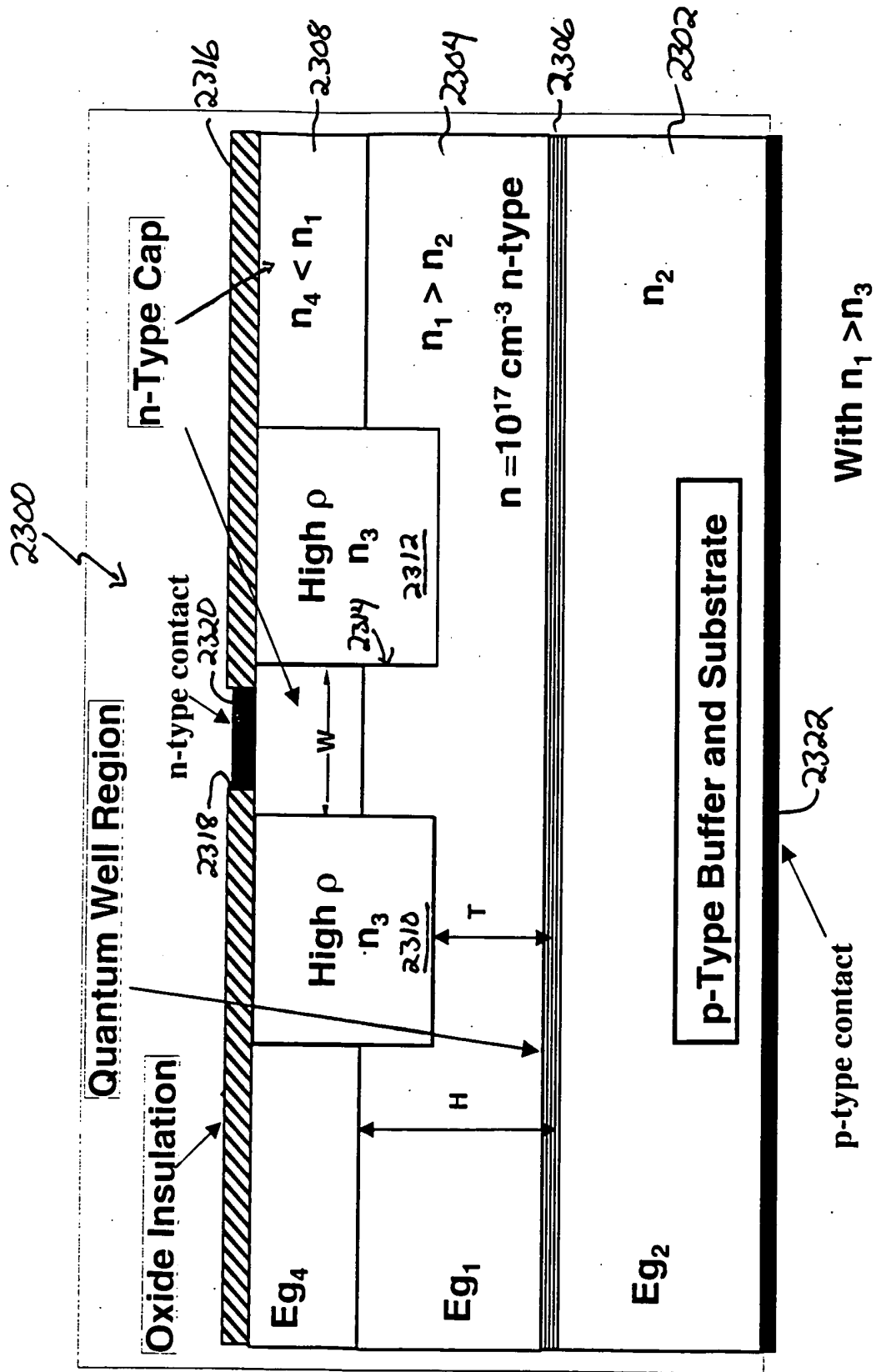


Fig. 23

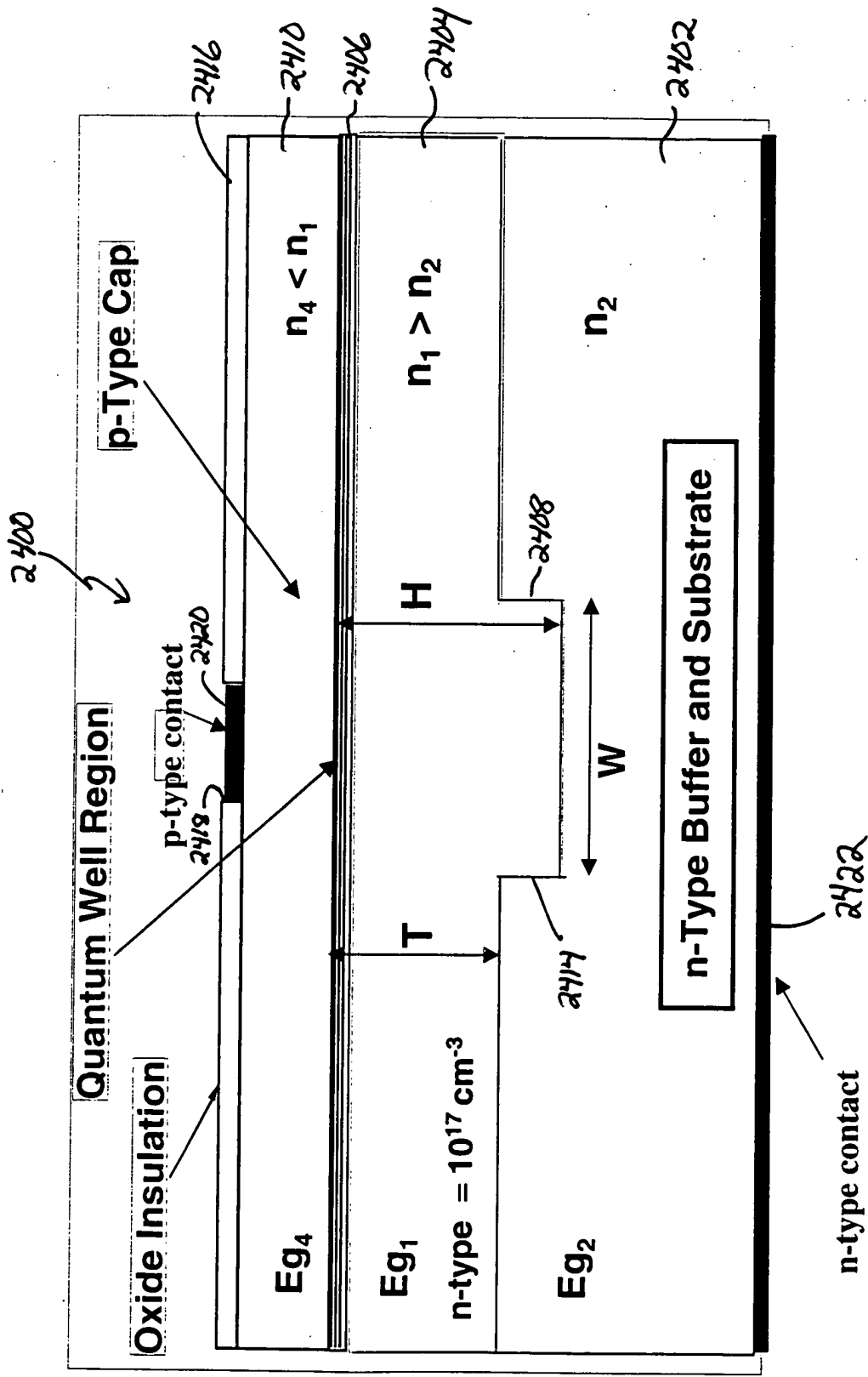


Fig. 24

2500

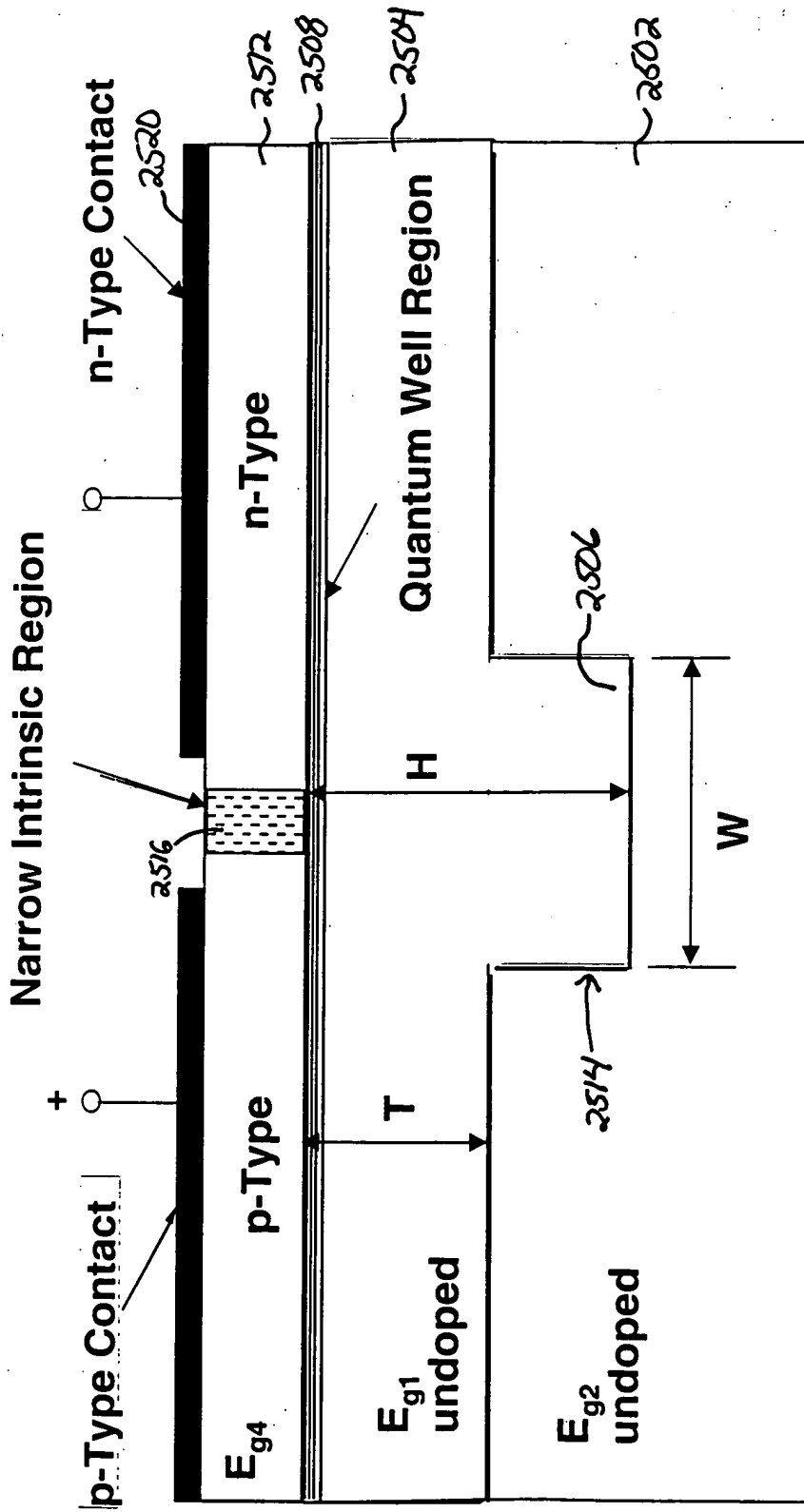


Fig. 25